'ATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT-

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P410245 KRM	FOR FURTHER ACTION .	See Notification of 7 Examination Report	Fransminal of International Preliminary (Form PCT/IPEA/416).			
International Application No. PCT/NZ99/00193	International Filing Date 17 November 1999	e (day/month/year)	Priority Date (day/month/year) 17 November 1998			
International Patent Classification (IPC)	or national classification	and IPC				
Int. Cl. 7 D06F 33/02	•		•			
Applicant						
FISHER & PAYKEL LIMITE	D et al					
This international preliminary eand is transmitted to the applications.	examination report has be ant according to Article 3	een prepared by this In	sternational Preliminary Examining Authority			
2. This REPORT consists of a total	al of 5 sheets, includir	ng this cover sheet.	·			
X This report is also accom	panied by ANNEXES, i.e basis for this report and	e., sheets of the descrip	otion, claims and/or drawings which have ectifications made before this Authority (see PCT).			
These annexes consist of a total	l of 3 sheet(s).					
3. This report contains indications relatin	g to the following items:					
I X Basis of the report	4					
II Priority						
Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
V X Reasoned statemen		h regard to novelty, in tatement	ventive step or industrial applicability;			
VI Certain documents						
VII Certain defects in t	he international application	on (S	-			
VIII Certain observation	as on the international app	olication				
Date of submission of the demand	Dat	e of completion of the				
30 May 2000	i i	e of completion of the ebruary 2001	report			
Name and mailing address of the IPEA/AU		norized Officer				
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRA E-mail address: pct@ipaustralia.gov.au	ALIA					
Facsimile No. (02) 6285 3929	ł	LLUM	•			
	Tele	phone No. (02) 6283	2544			

national application No.

PCT/NZ99/00193

I.	Basis of the report
1.	With regard to the elements of the international application:
ĺ	the international application as originally filed.
	X the description, pages 1-11, as originally filed,
	pages, filed with the demand,
	pages , received on with the letter of
	X the claims, pages, as originally filed.
	pages , at arriended (together with any statement) under Article 19,
	pages, filed with the demand,
	pages 12-14, received on 8 November 2000 with the letter of 8 November 2000
	X the drawings, pages 1/5-5/5, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the sequence listing part of the description:
	pages, as originally filed
	pages , filed with the demand
2.	pages, received on with the letter of
۷.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
,	Replacement sheets which have been furnished to the receiving Office in response to an invitation and a stable of the second stable of
•	are not dischool and 10.17).
	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

INTERNATIONAL PRELI ARY EXAMINATION REPORT

rnational application No.

PCT/NZ99/00193

Ш.	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be nonobvious), or to be industrially applicable have not been examined in respect of:
	the entire international application.
	claims Nos: 7-14
	because:
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
	e.
	·
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
	X no international search report has been established for said claim Nos. 7-14
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
	the written form has not been furnished or does not comply with the standard.
	the computer readable form has not been furnished or does not comply with the standard.

INTERNATIONAL PRELIN ARY EXAMINATION REPORT

, mational application No

YCT/NZ99/00193

• • •	INTERNATIONAL PRECIN	
IV.	Lack of unity of invention	
1.	Lack of unity of invention In response to the invitation to restrict or pay additional fees the applicant has:	
	restricted the claims.	
	paid additional fees.	
	paid additional fees under protest.	
	neither restricted nor paid additional fees.	
	that the requirement of unity of invention is not complied with	
2.	This Authority found that the requirement of unity of inventions of the second of the	
3.	This Authority round to invite the applicant to restrict of pay account 68.1, not to invite the applicant to restrict of pay account 68.1, not to invite the applicant to restrict of pay account 68.1, not to invite the applicant to restrict of pay account for the following section of the followin	
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	complied with.	
	not complied with for the following reasons:	
6	The international preliminary examination report has been drawn up in respect of the entire international preliminary examination all Preliminary Examining Authority is of the international application but the International Preliminary Examining Authority is of the opinion that the application does not appear to comply with the requirements of unity of opinion that the application does not appear to comply with the requirements of unity of invention as set forth in the PCT regulations (Article 34(3), Rule 68(1) PCT).	
	The separate groups of invention are:	
	ten a method of operating	
	 Claims 1-6 are directed to a method of braking a washing machine spin tub. Claims 7-9 are directed to a method of braking a washing machine spin tub. 	
	3. Claim 10 is directed to a method of powering	
	3. Claim 10 2. 4. Claim 11 is directed to an optocoupler drive circuit.	1
	4. Claim 11 is directed to a laundry washing machine. 5. Claims 12-14 are directed to a laundry washing machine.	
	5. Claims 12-14 are directed to a launtily wastered. Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.	
	4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:	
	all parts.	
	X the parts relating to claims Nos. 1-6	5/6

NO

JARY EXAMINATION REPORT

Claims 1-6

Claims

emational application No. PCT/NZ99/00193

***	INTERNATIONAL PREL	VARY EXAMINATION REPORT	PCT/NZ99/00193
v.	Reasoned statement under and explanations supporti	Article 35(2) with regard to novelty, inven	tive step or industrial applicability; citations
1.	Statement		YES
"	Novelty (N)	Claims 1-6	ИО
		Claims	YES
	Inventive step (IS)	Claims 1-6	NO
		Claims	YES

Citations and explanations (Rule 70.7) 2.

Industrial applicability (IA)

Claims 1-6 meet the criteria set forth in PCT Article 33(2)-(4) for novelty, inventive step and industrial applicability. The prior art published before the priority date does not disclose a method of operating a drain pump in a laundry washing machine which comprises the steps defined in (a) and (b) of claim 1 and then repeating the steps (a) and (b) for the duration of the drain phase.

International application No.

Further documents are listed in the continuation of Box C Gassiel categories of cited documents: "T" later documents date of the priority date of the prio	vant passages	elds searched
CLASSIFICATION OF SUBJECT MATTER 17: D06F 33/02 ording to International Patent Classification (PC) or to both national classification and IPC FIELDS SEARCHED nimum documentation searched (classification system followed by classification symbols) 6F 33/ neumentation searched other than minimum documentation to the extent that such documents Plectronic data base consulted during the international search (name of data base and, where put the property of	are included in the first acticable, search term acticable, search term are are also	elds searched as used) Relevant to claim No.
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Further documents are listed in the continuation of Box C Gassiel categories of cited documents: "T" later documents date of the priority date of the prio	. Camila	annex
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priority date	*	metional filing date or
priority date	ent published after th	e international filing date or with the application but cited to y underlying the invention
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international time may throw doubts on priority change, my document	red to involve an inv	entive step which the ter such documents, such a person skilled in the art
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or which is cited to establish the publication combined combined another citation or other special reason (as specified) combined	on being obvious to	a person samily
	on being obvious to member of the same	parent tall
"O" document referring to the international filing date "&" document published prior to the international filing date "&" document published prior to the international filing date.		
"p" document published prior to the international document published pub	-Cthe internation	al search report
"p" document published prior to the claimed but later than the priority date claimed Date of mai	ing of the internation	AR 2000
Date of the actual completion of the international search	7 () PV	
Authorized	20 11	
Name and mailing address of the ISARA	20 11	
AUSTRALIAN PATENT OFFICE	20 11	
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enternational application No.
PCT/NZ 99/00193

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	DELEVANI		Relevant to claim No.	
Continuati	on). DOCUMENTS CONSIDERED TO BE RELEY AND Citation of document, with indication, where appropriate, of the relevant particular parti	ssages		1
egory*	Citation of document, with indication,		1-6	
	EP 407272 A (ESSWEIN S.A.) 9 January 1991			
x	Abstract .			1
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•	IN I EKNATION	TC ATT.
		Lable (Continuation of Item 2 of first sheet)
	Observations where certain claims were found unser	Archable (Commission of the following
x 1	Observations where	certain claims under Article 17(2)(a) for the following
	regional search report has not been established in respect	
iis inte asons:	:mational society	
250115.	Claims Nos.: because they relate to subject matter not required to	he searched by this Authority, namely:
•	claims	De scarence -
	because they relate	·
	*	
		plication that do not comply with the prescribed requirements search can be carried out, specifically:
2.	Claims Nos.:	plication that do not comply with specifically:
٠.	because they relate to parts of the international	search can be carried out of
	Claims Nos.: because they relate to parts of the international application of the international to such an extent that no meaningful international	
	•	rafted in accordance with the second and third sentences of Rule
١.,	Claims Nos.:	rafted in accordance with the second and this
3.	hecause they are dependent claims and are not a	
	6.4(a)	of first sheet)
L	here unity of invention is lacking	g (Continuation of item
Box	6.4(a) x II Observations where unity of invention is lackin	in this international application, as follows:
-	Authority found multiple invention	is in this most
Thi	Observations where unity of invention is tacking is International Searching Authority found multiple invention Claims 1-6, a method of operating a drain pump in a way and off	rashing machine.
1	. 1 Congrating a drain pullip in	
1.	Claims 7-10, a method of braking a washing machine	a washing machine.
3.	Claim 10 directed to a method of powering of Claim 11 directed to an optocoupler drive circuit. Claims 12-14 directed to a laundry machine drain pur	np drive.
5	Claims 12-14 directed to a laundry massive	mely paid by the applicant, this international search report covers
15.		
$ \cdot _{1}$	As all required additions all searchable claims	without effort justifying an additional fee, this Authority did not
1.	all searchable states could be searched w	vithout effort justifying an address
2	2. As all searchable claims could be invite payment of any additional fee.	by the applicant, this international search
- \ -	invite payment of the required additional sear	ch fees were timely paid by die off
-	3. Invite payment of any some of the required additional sear report covers only those claims for which fe	rch fees were timely paid by the applicant, this international search les were paid, specifically claims Nos.:
- 1.	report covers only along	
1		nely paid by the applicant. Consequently, this international search intioned in the claims; it is covered by claims Nos.:
1	swinnel search fees were tir	nely paid by the applicant. Country paid by claims Nos.:
1	4. X No required additional scaled restricted to the invention first me	nely paid by the applicant. Consequently, this interest entioned in the claims; it is covered by claims Nos.:
1	report is restricted to the arrangement	
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		a protest.
	The additional search	a fees were accompanied by the applicant's protest.
	Remark on Protest The additional search	n fees were accompanied by the applicant's protest.

Information on patent family members

International application No. PCT/NZ 99/00193

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Doo	eument Cited in Search Report			Patent Family Member	
EP	407272	FR	2649422		
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